

Aputure Light torm User Manual

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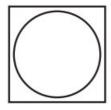
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When using this unit, basic safety precautions should always be followed, including the following:

- 1. Read and understand all instructions before using.
- 2. Close supervision is necessary when any fixture is used by or near children. Do not leave the fixture unattended while in use.
- 3. Care must be taken as burns can occur from touching hot surfaces.
- 4. Do not operate the fixture if a cord is damaged, or if the fixture has been dropped or damaged, until it has been examined by qualified service personnel.
- 5. Position any power cables such that they will not be tripped over, pulled, or put into contact with hot surfaces.
- 6. If an extension cord is necessary, a cord with an amperage rating at least equal to that of the fixture should be used. Cords rated for less amperage than the fixture may overheat.
- 7. Always unplug the lighting fixture from the electrical outlet before cleaning and servicing, or when not in use. Never yank the cord to remove the plug from the outlet.
- 8. Let the lighting fixture cool completely before storing.
- 9. To reduce the risk of electric shock, do not immerse this fixture in water or any other liquids.
- 10. To reduce the risk of fire or electric shock, do not disassemble this fixture. Contact cs@aputure.com or take it to qualified service personnel when service or repair work is required. Incorrect reassembly may cause electric shock when the lighting fixture is in use.
- 11. The use of an accessory attachment not recommended by the manufacturer may increase the risk of fire, electric shock, or injury to any persons operating the fixture.
- 12. Power this fixture by connecting it to a grounded outlet.
- 13. Please remove the protective cover before powering on the light. Please remove the protection cover before using the reflector
- 14. Please do not block the ventilation and do not look at the light directly when it is powered on.

CAUTION:





DO NOT TOUCH LED Light surface

- 15. Please do not place the LED lighting fixture near any liquids or other flammable objects.
- 16. Only use a dry microfiber cloth to clean the product.
- 17. Please have the product checked by an authorized service personnel agent if your product has a problem.
- 18. The malfunctions caused by unauthorized disassembly are not covered under the warranty.
- 19. We recommend only using the original Aputure cable accessories. Please note that our warranty for this product does not apply to any repairs required due to any malfunctions of unauthorized Aputure accessories, although you may request such repairs for a fee.
- 20. This product is certified by RoHS, CE, KC, PSE, and FCC. Please operate the product in full compliance with the operation standards. Please note that this warranty does not apply to repairs arising from malfunctions, although you may request such repairs on a chargeable basis.
- 21. The instructions and information in this manual are based on thorough, controlled company testing procedures. Further notice will not be given if the design or specifications change.

SAVE THESE INSTRUCTIONS

FCC Compliance Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1. This device may not cause harmful interference.
- 2. This device must accept any interference received, including interference that may cause undesired operation.

Warning: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try reorient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a different circuit than the receiver is connected to. Consult the dealer or an experienced radio/TV technician for help.

RF Warning Statement:

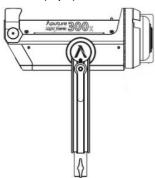
This device has been evaluated to meet general RF exposure requirements.

Check list

When you unbox the product, please make sure all the items listed below are included. Otherwise, please contact the seller immediately.

Protection





300x Lamp

Head (1 pc)

Cable Relief Hook

(1 pc)



• Quick-Release

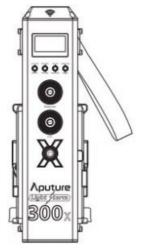
"Lightning Clamp"

(1 pc)



Paracord

Strap(1 pc)



Control Box

(1 pc)

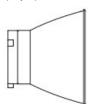
• VA-Remote RC1+

(1 pc)



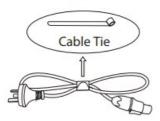
• 55° Hyper-Reflector

(1 pc)



• Neutrik® powerCON AC

Power Cable (6m) (1 pc)

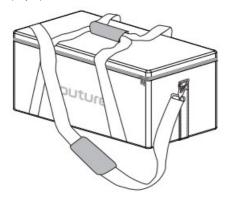


5-Pin Male-to-Female
 XLR Head Cable (3m) (1 pc)



• Carrying Case





Product Details

1. Light

- Bowens Mount
- LED Light Source
 Optical Blending
 Prism
- 55° Hyper-Reflector
- Yoke
- Cable Relief Hook
- T-Handle/ Baby PinMounting Screw
- Baby Pin Receiver/Mounting Column (5/8in. / 16mm)



 Bowens Mount Release Latch



• 5-Pin Male XLR Receiver



Ratcheting Disk
 Brake Handle



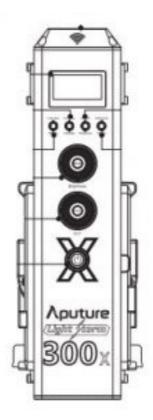
Label



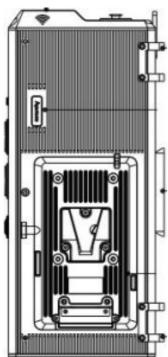
2. Controller box

- Paracord Strap Plate
- OLED Display
- Channel Setting / FX: Intensity Selection
- Lighting Control Mode / FX: Lighting Eects Toggle
- Brightness Control Wheel / Menu Button

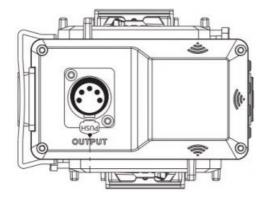
- CCT Control Wheel / Preset Button
- Power Button
- Group Setting / FX: Frequency Selection



- Wireless Control Selection / FX: Trigger
- Antenna Box
- Floor Stand
- USB Port
- Quick-Release Plate
- Battery Plate (*Anton Bauer or V-mount)
- Floor Stand

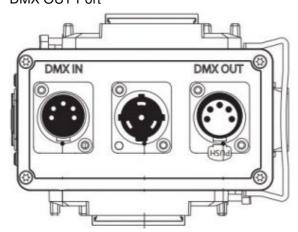


• 5-Pin Female XLR Power Output



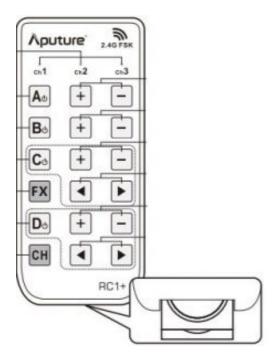
• DMX IN Port

Neutrik power CON Power Input DMX OUT Port



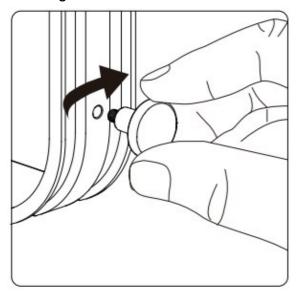
3. VA-Remote RC1+

- · Channel Indicators
- Group A On/Off
- Group B On/Off
- Group C On/Off
- FX Button
- Group D On/Off
- · Channel Selector
- Group A Dimming Controls
- Group B Dimming Controls
- Group C Dimming Controls
- Group C Frequency & CCT Controls
- Group D Frequency & CCT Controls



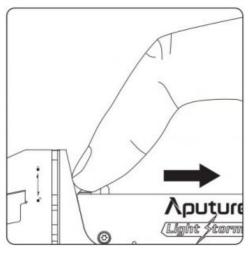
Installing

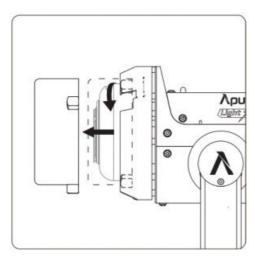
1. Installing the cable relief hook



2. Attaching/detaching the protection cover

Pull back the retaining pin, rotate the cover clockwise, then detach the cover. To reattach the cover, insert it into the Bowens mount and rotate counterclockwise.

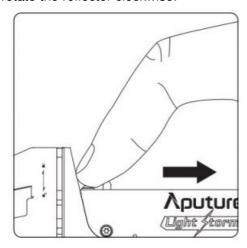


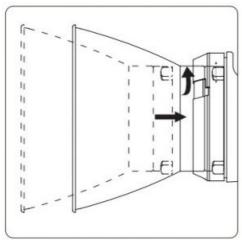


Notice: Always remove the protection cover prior to turning on the light. Always re-install the cover when packing

3. Attaching/detaching the Hyper-Reflector

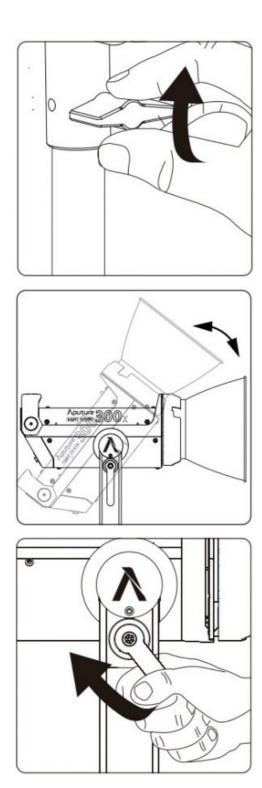
To install the reflector, pull back the retaining pin, insert the reflector into the Bowens mount, and rotate it counterclockwise as shown in the following pictures. To remove the reflector, pull back the retaining pin and rotate the reflector clockwise.





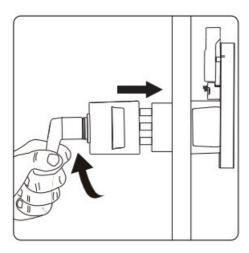
4. Setting up the Light

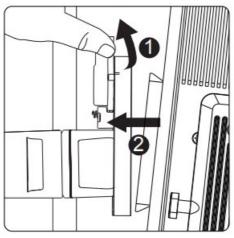
Mount the light onto a light stand, then fix it in place using the T-Handle/Mounting Screw on the Baby Pin Receiver/Mounting Column (5/8in. / 16mm). Then loosen/tighten the handbrake locking mechanism on the yoke to adjust the fixture's angle of tilt.

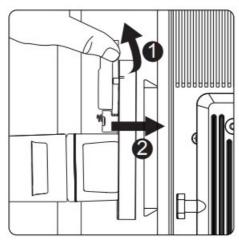


5. Instructions for the Quick-Release "Lightning Clamp"

- 1. Clamp the Lightning Clamp onto a light stand.
- 2. To attach the control box, rotate the release lever to unlock the quick-release baseplate, then mount the control box onto the Lightning Clamp (the release lever will automatically spring back).
- 3. To remove the control box, grasp it firmly, then unlock the quick-release plate by turning the release lever, and detach the control box.







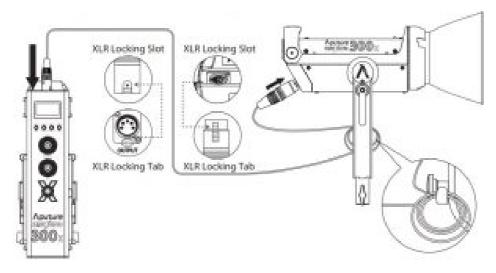
Specifications

Weight 670g /1.48lbs Sizes(L*W*H) 10.35×8.74×12.5cm / 4.07×3.44×4.92in	
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The Quick-Release "Lightning Clamp" can clamp onto square or round pipe with a diameter between 2 -5cm or 0.79-1.97in.

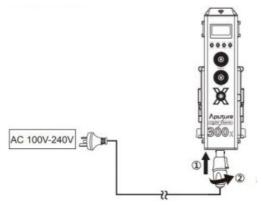
4. Connect the light to the control box

Connect the light to the control box using the 5-Pin Male-to-Female XLR Head Cable.



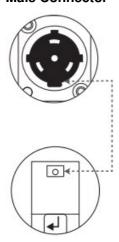
5. Powering up the controller 1) Powering by AC

1. Powering by AC



Neutrik® powerCON

Male Connector

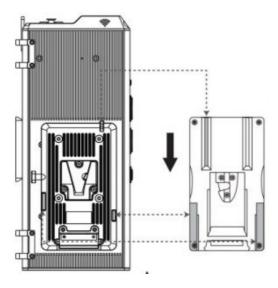


Neutrik® powerCON Female

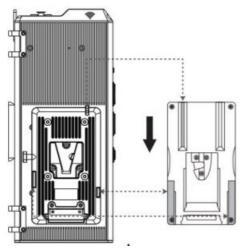
Locking Connector

To disconnect the Neutrik® powerCon cable, pull back on the yellow release tab on the cable connector, and rotate the connector counterclockwise.

1. Powering by Batteries



V-Mount Battery

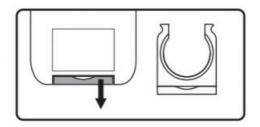


Anton Bauer Battery

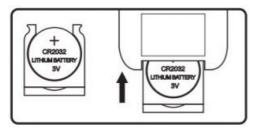
- Batteries: Voltage 12~16.8V; Recommended ≥15A continuous discharge.
- The LS 300x can be operated using a single battery for up to half of the mxture's
 maximum output. Plugging the light into AC power
 or using two batteries allows you to utilize the light's full output. When powering the
 light from a single battery, you mu t install the s
 battery on the right side of the of the control box, or the light will not turn on.
- Do not use non-14.4v batteries (batteries with voltages outside of the 12-16.8V range). Using higher voltage batteries will damage the power supply and the lighting mxture.
- Only use batteries that support the necessary continuous current discharge special cations mentioned above. If non-compatible batteries are used, the batteries will enter a protection state and the lighting mixture will not operate as intended.
- Customers can choose V-Mount or A-Mount battery plates for their control boxes upon purchase according to their needs

6. Insert the button battery to power VA-Remote RC1+

Remove battery compartment

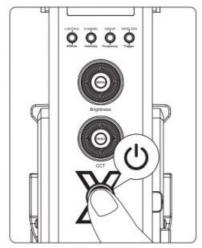


• Install button battery and insert it into the VA-Remote RC1+

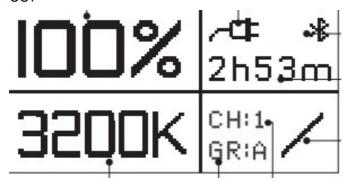


Operations

1. Press the power button to turn the light on and off

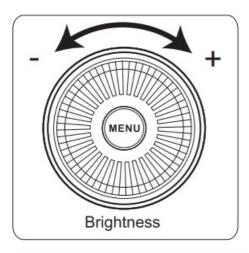


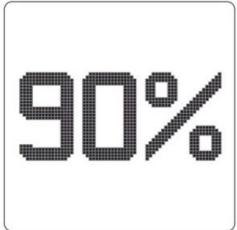
- Brightness
- Battery Level/ AC Power Symbol
- Wireless Control Mode
- Remaining Operating Time
- Dimming Curve
- Groups
- Channels
- CCT



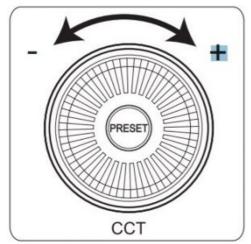
2. Manual Control

1. Rotate the Brightness Control Wheel to adjust the intensity of the light from 0-100%.





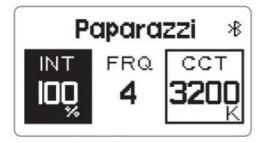
2.) Rotate the CCT Control Wheel to adjust the color temperature of the light from 2700K-6500K.



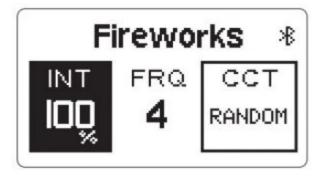


Press and hold the Eects button for 2 seconds to activate Lighting FX mode, then short press the Eects button to toggle between Paparazzi, Fireworks, Faulty Bulb, Lightning, TV, Pulsing, Strobe, Explosion, Fire, etc.

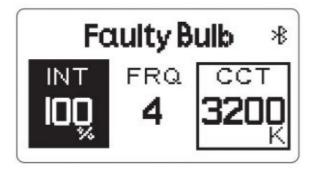
· Paparazzi Effect



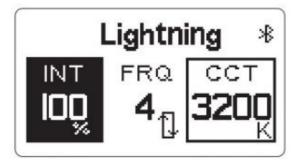
· b. Fireworks Effect



· c. Faulty Bulb Effect



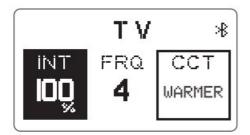
· Lightning Effect



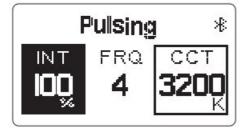
As of writing this the Fireworks eect worked in a CCT range presets include three choices of 3200K/5600K/Random.

When controlling the lightning effect, short press the Trigger button to single trigger the lighting effect; long press the Trigger button to enter the Lightning Cycle Mode.

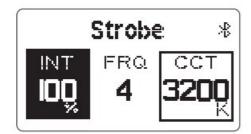
TV Effect



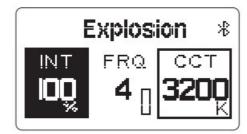
• Pulsing Effect



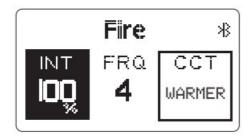
• Strobe Effect



• Explosion Effect



• i. Fire Effect



As of writing this the TV effect worked in CCT range presets and you cannot set a fixed base CCT. When controlling the explosion effect, short press the Trigger button to single trigger the lighting effect

When in Lighting FX mode, short press the "Intensity" button to enter Intensity Adjustment Mode. Then rotate the Brightness Control Wheel to adjust the intensity from 10%-100% as displayed on the screen.



When in Lighting FX mode, short press the "Frequency" button to enter Frequency Adjustment Mode. Then rotate the Brightness Control Wheel to adjust the frequency of the eect from 1 to 10 and R (Random) as displayed on the screen.



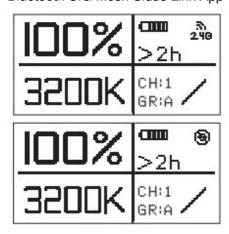
When in Lighting FX mode, rotate the CCT Control Wheel to adjust the base CCT of the lighting effect from 2700K to 6500K as displayed on the screen.

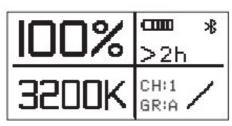


As of writing, you cannot set a fixed base CCT for certain eects, such as: Fireworks, TV, and Fire. If the light is powered o, upon turning on again, the light will resume its last saved setting

4.) Wireless Connectivity Modes

Press the Wireless/Trigger button in order to switch between 2.4GHz Wireless Remote Control, Bluetooth SIG Mesh Sidus Link App Control, and no wireless control.





*When setting up the device with the Bluetooth mobile application, the corresponding name of the fixture is LS 300x (six digits + letters represent the fixture's serial number)

5. Press the MENU button to enter the system menu interface, as shown below.

Output Mode

DMX Mode

Dimming Curve

Fan Mode

• Stduo Mode

BT Reset

Language

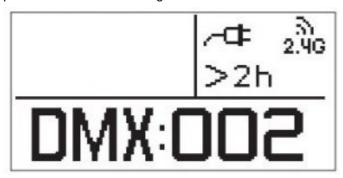
USB Mode

Exit

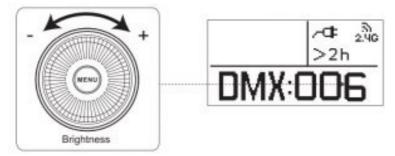
Ver:1.0

6. DMX mode

Press the MENU button to enter the system menu, rotate the dimming wheel to select DMX mode and press the MENU button again to enter DMX mode.

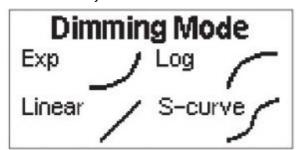


When in DMX mode, rotate the brightness control wheels to set the device's DMX channel. Then press the MENU button to take you back to the Menu interface



7. Dimming curve mode

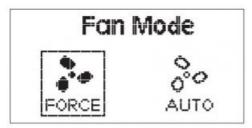
Press the MENU button to enter the system menu, rotate the dimming wheel to select Dimming Curve, and press the MENU button again to enter the dimming curve selection menu. Using the wheel to choose from exponential (Exp), logarithmic (Log), S-Curve, or linear dimming curves, and press the MENU button to make your selection.



8. Fan mode

Press the MENU button to enter the system menu, rotate the dimming wheel to select Fan Mode, and press the MENU button again to enter Fan Mode. Use the wheel to select between Force* and Auto, then

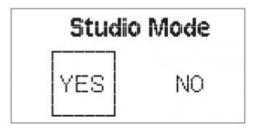
press the MENU button to confirm your selection.



In "Force Mode" the fan will continuously spin at its maximum speed. In "Auto Mode" the fan will only begin spinning when the light has reached 45°C.

9. Studio mode

Press the MENU button to enter the system menu, rotate the dimming wheel to select Studio Mode, and press the MENU button again to enter the Studio Mode menu. Once in the menu, use the wheel to choose between "YES"*** or "NO" and press the MENU button to confirm your selection.



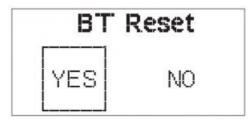
When Studio Mode is active, the light will turn on as soon as it receives power, without having to press the power button.

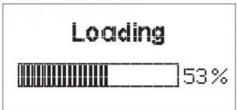
The light must be connected to your mobile device using the Sidus Link mobile application, and not via your device's typical Bluetooth connection menu.

Studio Mode is active as the factory default.

10. Bluetooth reset

1. Press the MENU button to enter the system menu, rotate the dimming wheel to select BT Reset. Press the MENU button again to enter the Bluetooth Menu. Use the wheel to select "YES" to reset the Bluetooth pairing (the pop-up window displays the current reset progress and is completed within 5 seconds); or select "NO" to return to the previous menu.





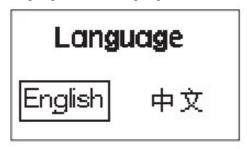
- 2. After resetting the light's Bluetooth connection, your mobile phone or tablet will be able to connect to and control the light.
- 3. If the Bluetooth Reset fails, a [Reset Failed] screen will pop-up, and the light will return to Bluetooth mode after 2 seconds.

The light must be connected to your mobile device using the Sidus Link mobile application, and

not via your device's typical Bluetooth connection menu.

11. Language

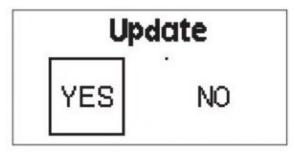
Press the MENU button to enter the system menu, rotate the dimming wheel to select Language, and press the MENU button again to enter the Language menu*. Use the wheel to select from the available languages. Initial languages include "English" and "Chinese".



The factory default language is English.

12. USB Mode

- 1. The control box has a built-in USB port for firmware updates (for both the control box and lamp head). Insert a compatible USB* flash drive into the USB port.
- 2. To update the light's firmware, press the MENU button to enter the system menu, rotate the dimming wheel to select USB Mode, and press the MENU button again to enter the Update menu. Use the wheel to select "YES" or "NO". If a USB flash drive containing a firmware update is mounted in the USB port, the screen will display an update progress bar**. If you choose "NO", press MENU button then it will return the menu interface.
- 3. If a USB flash drive is not inserted into the USB port of the flash drive does not contain a firmware upgrade file, entering the Update menu and choosing "YES" will return you to the system menu interface.





Only FAT16 and FAT32 storage formats can be used for firmware updates. Incompatible formats will result in the screen displaying a format error and will return to the main menu.

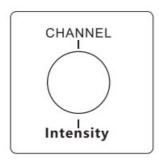
DO NOT unplug the light or the USB flash drive during the update process. In the case of an unexpected power failure, DO NOT remove the USB flash drive. When the power is restored, the fixture will automatically resume the update process. After successfully updating the firmware, the fixture will automatically restart.

You can also do an OTA wireless firmware update using the Sidus Link mobile app.

3. Remote Control

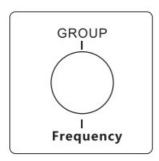
You can control the LS 300x from any channel or group configuration Light Storm lights have three channels (1/2/3) and four groups (A/B/C/D). Only groups "C" or "D" can be used to control brightness, CCT and lighting effects, whil groups "A" and "B" can only be used to control brightness.

1. Configuring channel and group settings on the control box Press the CHANNEL button to toggle between channels 1, 2, & 3.



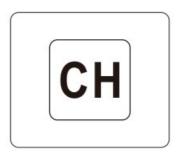


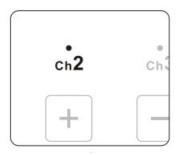
Press the GROUP button to toggle between groups A, B, C, & D.





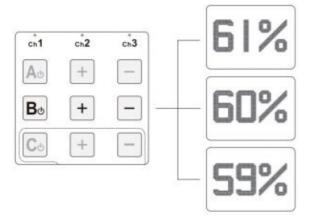
2. Configuring channel settings on the remote





3. Adjusting brightness

Press A/B/C/D to toggle the lights on or o, press (+ / -) to adjust the brightness of the light from 0 to 100% accordingly



This remote will not work when the light is in DMX mode.

The remote control will only control the operation of the light when the fixture is in 2.4Ghz Wireless Control Mode.

4. CCT Control

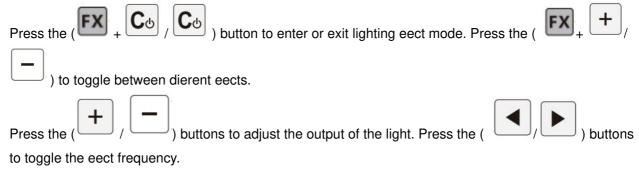
In normal light control mode, press the () buttons to adjust the light's output CCT.

In FX Mode, press the (FX + -) buttons to adjust the lights output CCT.

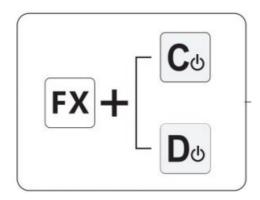
The remote control can only be used to adjust CCT if the lights are in groups C or D.

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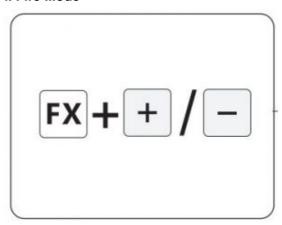
5. FX Control



Enter or Exit Eect Mode



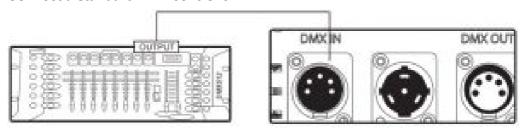
- a. Paparazzi Mode
- b. Fireworks Mode
- c. Faulty bulb Mode
- d. Lightning Mode
- e. TV Mode
- f. Pulsing Mode
- g. Strobe Mode
- h. Explosion Mode
- i. Fire Mode



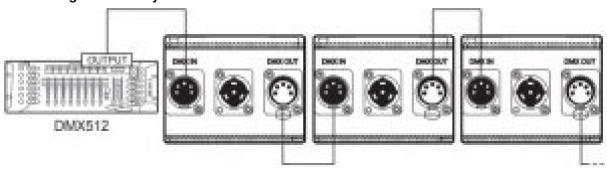
The remote control can only be used to operate lighting eects if the lights are in groups C or D.

4. Connecting to DMX

1. Connect a standard DMX controller



Connecting DMX to only one 300x



The DMX interface schematic is shown in the pictures below

- 1.Signal Common
- 2.Data 1-

(Primary Data Link

3.Data 1+

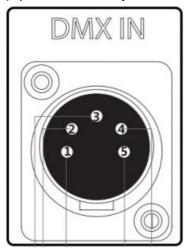
(Primary Data Link)

4.Data 2-

(Optional Data 1- Secondary Data Link)

5.Data 2+

(Optional Secondary Data Link)



- 1.Signal Common
- 2.Data 1-

(Primary Data Link)

3.Data 1+

(Primary Data Link)

4.Data 2- (Optional

Secondary Data Link)

5.Data 2+ (Optional

Secondary Data Link)



2. Channel Selection

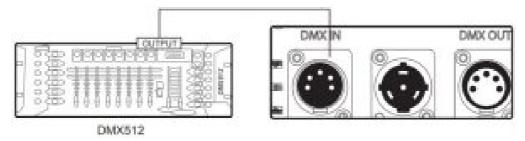
In DMX mode, match the channel of your DMX controller with the light, and then adjust accordingly.

The default DMX channel is "001".

The range of DMX channels is 1 to 512.

5. Controlling Device Via DMX

1. Connect the DMX controller's OUTPUT to the 300x's controller INPUT as shown in the figure below.



2. DMX Chart

DMX Channel Values / Functions 6 DMX Channels		
Channe	Value	Function
	0-255	Dimmer
1		Intensity 0 to 100%
		CCT Control
0-5	0-5	2700K
	6-10	2800K
	11-15	2900K
21-25 26-30	3000K	
	21-25	3100K
	3200K	

31-35	3300K
36-40	3400K
41-45	3500K
46-50	3600K
51-55	3700K
56-60	3800K
61-65	3900K
66-70	4000K
71-75	4100K
76-80	4200K
81-85	4300K
86-90	4400K
91-95	4500K
96-100	4600K
101-105	4700K

106-110	4800K
111-115	4900
116-120	5000K
121-126	5100K
131-135	5300K
136-140	5400K
141-145	5500K
146-150	5600K
151-155	5700K
156-160	5800K
161-165	5900K
166-170	6000K
171-175	6100K
176-180	6200K

	181-185	6300K
	186-190	6400K
	196-255	Undefined
		Frequency Control
3	0-19	1
	20-39	2
	40-59	3
	60-79	4
	80-99	5
	100-119	6
	120-139	7
	140-159	8
	160-179	9
	180-199	10
		·

	200-219	R
	220-255	Undefined
		Mode Selection
4	0-127	Manual Mode
	128-255	FX Mode
		FX Contro
	0-19	Paparazz
	20-39	Fireworks
	40-59	Faulty Bulb
	60-79	Lightning
	80-99	TV
5	100-119	Pulsing
	120-139	Strobe
	140-159	Explosion

	160-178	160-178
	180-255	Undefined
		IN Lightning mode
	0	Start Point
	1-127	Single Trigger
	128-255	Cycle Mode
6		IN Explosion mode
	0	Start Point
	1-127	Single Trigger
	128-255	Undefined

6. Using the Sidus Link APP

You can download the Sidus Link app from the iOS App Store or Google Play Store for enhance the functionality of

the light. Please visit sidus.link/app/help for more details regarding how to use the app to control your Aputure lights.



Operating,Current	3.5A	Power Consumption	350W maximum
Power Supply			e CRI Remote Ability Active Cooling
TLCI	≥96	cqs	≥95
CRI	≥96	Color Temperature	2700K~6500K
Radio Frequency	2.4GHz	Channels	1/2/3
Groups	A/B/C/D	Remote Ability	≤100m
Battery requirement	12V-16.8V>15A	APP Control Type	Bluetooth
Sizes (L*W*H	Light	29.84*21.56*34.45cm / 11.75*8.49*13.56in	
	Controller box Anton Bauer Battery	27.86*12.67*8.73cm / 10.97*4.99*3.44in	
	Controller box (V-Mount)	27.86*12.67*9.67cm / 10.97*4.99*3.81in	

Photometrics

ССТ	Distance	1m	3m	5m
3200K	Bare Bulb	474 (fc)	54 (fc)	20 (fc)
		5100 (lux)	580 (lux)	220 (lux)
	Hyper-Reflector	1505 (fc)	121 (fc)	42 (fc)
		16200 (lux)	1300 (lux)	450 (lux)
4300K	Bare Bulb	697 (fc)	74 (fc)	32 (fc)
	Hyper-Reflecto	24300 (lux)	2100 (lux)	700 (lux)
5500K	Bare Bulb	585 (fc)	65 (fc)	23 (fc)
		6300 (lux)	700 (lux)	250 (lux)
	Hyper-Reflector	1904 (fc)	158 (fc)	51 (fc)
		20500 (lux)	1700 (lux)	550 (lux)

Trademarks

Bowens is a trademark registered by Bowens in China and other countries. Anton Bauer is a trademark registered by Anton Bauer in the US and other countries. Neutrik® is a trademark registered by Neutrik® in the US and other countries.

APUTURE GURANTY CARD

Serial No.	
Item Name	
Purchase Date	
Buyer Name	
Buyer Phone	
Buyer Add	
Franchiser Seal	

APTURE Imaging industrines.co.,Ltd.

inspection:qualified

Service Warranty(EN)

Aputure Imaging Industries Co., Ltd. warrants the original consumer purchaser from defects in material and workmanship for a period of one (1) year after the date of purchase. For more details of warranty visit www.aputure.com

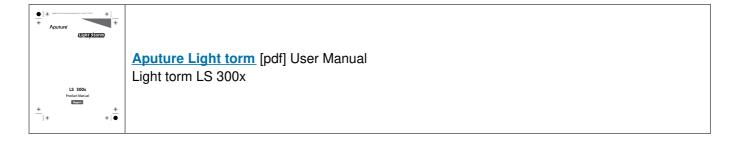
Important: Keep your original sales receipt. Be sure the dealer has written on it the date, serial No. of the product. This information is required for warranty service.

This warranty does not cover:

- Damage that is the result of misuse, abuse, accident (including but not limited to damage by water), faulty connection, defective or maladjusted associated equipment, or the use of the product with equipment for which it was not intended.
- Cosmetic defects that appear more than thirty (30) days after the date of purchase. Cosmetic damage caused by improper handling is also excluded.
- Damage that occurs while the product is being shipped to whoever will service it.
 This warranty is void if:
- The product identification or serial No. label is removed or defaced in any way.
- The product is serviced or repaired by any one other than Aputure or an authorized Aputure dealer or service agency.

Aputure Imaging Industries Co., Ltd. Add: F/3, Building 21, Longjun industrial estate, HePing West Road, Shenzhen, Guangdong E-MAIL: cs@aputure.com Sales Contact: (86)0755-83285569-613

Documents / Resources



References

Aputure - LED Lighting for Filmmakers

Manuals+,